

Test Procedure for §170.302 (d) Maintain active medication allergy list

This document describes the draft test procedure for evaluating conformance of complete EHRs or EHR modules to the certification criteria defined in 45 CFR Part 170 Subpart C of the Interim Final Rule (IFR) as published in the Federal Register on January 13, 2010. The document is organized by test procedure and derived test requirements with traceability to the normative certification criteria as described in the Overview document located at <http://healthcare.nist.gov>. These test procedures will be updated to reflect the certification criteria defined in the ONC Final Rule.

CERTIFICATION CRITERIA

§170.302 (d) Maintain active medication allergy list. Enable a user to electronically record, modify, and retrieve a patient's active medication allergy list as well as medication allergy history for longitudinal care.

INFORMATIVE TEST DESCRIPTION

This section provides an informative description of how the test procedure is organized and conducted. It is not intended to provide normative statements of the certification requirements.

This test evaluates the capability for a Complete EHR or combination of EHR Modules to enable a user to electronically record, modify, and retrieve a patient's active medication allergy list as well as maintain a medication allergy list over multiple visits with the same provider. This test procedure is organized into three sections:

- Record - evaluates the capability to enter patient active medication allergy data into the EHR to create the patient active medication allergy list
 - The Tester enters the NIST-supplied active medication allergies
- Modify – evaluates the capability to edit patient medication allergy data that have been previously entered into the EHR
 - The Tester displays the patient active medication allergy list data entered during the Record Patient Active Medication Allergy test
 - The Tester edits the previously entered active medication allergy data using NIST-supplied medication allergy data
- Retrieve – evaluates the capability to display and view the patient medication allergy list data that have been previously entered into the EHR, including the capability to display the patient medication allergy list as recorded during multiple visits
 - The Tester displays the patient active medication allergy data entered during the test
 - The Tester displays the patient medication allergy list as recorded during multiple visits
 - The Tester validates that the displayed medication allergy list data are accurate and complete
 - The Tester displays the patient medication allergy history
 - The Tester validates that the patient medication allergy history includes the medication allergies that were modified during the Modify test

REFERENCED STANDARDS

None

NORMATIVE TEST PROCEDURES

Derived Test Requirements

- DTR170.302.d – 1: Electronically Record Patient Active Medication Allergy List
- DTR170.302.d – 2: Electronically Modify Patient Active Medication Allergy List
- DTR170.302.d – 3: Electronically Retrieve Patient Active Medication Allergy List and Medication Allergy History

DTR170.302.d – 1: Electronically Record Patient Active Medication Allergy List

Required Vendor Information

- VE170.302.d – 1.01: Vendor shall identify a patient with an existing record in the EHR containing patient medication allergies entered during multiple prior visits to be used for this test
- VE170.302.d – 1.02: Vendor shall identify the EHR function(s) that are available to: 1) select the patient, 2) enter patient medication allergies, 3) modify (correct/update) patient medication allergies, 4) retrieve patient active medication allergy list, and 5) retrieve patient medication allergy history

Required Test Procedure:

- TE170.302.d – 1.01: Tester shall select patient active medication allergy data from NIST-supplied test data sets
- TE170.302.d – 1.02: Using the EHR function(s) identified by the Vendor, the Tester shall select the patient's existing record and enter patient active medication allergy data from the test data sets
- TE170.302.d – 1.03: Using the NIST-supplied Inspection Test Guide, the Tester shall verify that the patient active medication allergy test data have been entered correctly and without omission

Inspection Test Guide

- IN170.302.d – 1.01: Tester shall verify that the patient active medication allergy list test data are entered correctly and without omission
- IN170.302.d – 1.02: Tester shall verify that the patient medication allergy list data are stored in the patient's record

DTR170.302.d – 2: Electronically Modify Patient Active Medication Allergy List

Required Vendor Information

- No additional information required

Required Test Procedure:

- TE170.302.d – 2.01: Tester shall select patient medication allergy test data from NIST-supplied test data sets
- TE170.302.d – 2.02: Using the EHR function(s) identified by the Vendor, the Tester shall select the patient's existing record, shall display the patient active medication allergy list data entered during the Record Patient Medication Allergy test, and shall edit (correct/update) the previously entered patient medication allergy list data
- TE170.302.d – 2.03: Using the NIST-supplied Inspection Test Guide, the Tester shall verify that the patient medication allergy list data entered in the Modify Patient Active Medication Allergy test have been entered correctly and without omission

Inspection Test Guide:

- IN170.302.d – 2.01: Tester shall verify that the patient medication allergy data entered during the Record Patient Medication Allergy test can be accessed and edited (corrected/updated)
- IN170.302.d – 2.02: Tester shall verify that the modified medication allergy list data are stored in the patient's record

DTR170.302.d – 3: Electronically Retrieve Patient Active Medication Allergy List and Medication Allergy History

Required Vendor Information

- No additional information required

Required Test Procedure:

- TE170.302.d – 3.01: Using the EHR function(s) identified by the Vendor, the Tester shall select the patient's existing record and shall display and view the patient active medication allergy list data entered during the Record and Modify Patient Active Medication Allergy tests
- TE170.302.d – 3.02: Using the EHR function(s) identified by the Vendor, the Tester shall select the patient's existing record and shall display and view the patient medication allergy history from prior visits
- TE170.302.d – 3.03: Using the NIST-supplied Inspection Test Guide, the Tester shall verify that the patient active medication allergy list test data and the patient medication allergy history display correctly and without omission

Inspection Test Guide

- IN170.302.b – 3.01: Tester shall verify that the patient active medication allergy list data entered in the Record Patient Active Medication Allergy test and edited in Modify Patient Active Medication Allergy test display correctly and without omission
- IN170.302.b – 3.02: Tester shall verify that patient medication allergy history data from prior visits display correctly and without omission

EXAMPLE TEST DATA

Record Active Medication Allergies

Medication	Allergy Reaction	Status	Date Identified
Codeine	Hives	Active	6/27/96
Ampicillin	Diarrhea, nausea, vomiting	Active	3/15/94
Sulfonamides	Hives, photosensitivity	Active	8/24/05
Ibuprophen	Hives, respiratory distress	Active	4/4/07

Modify Active Medication Allergies

Modify the Date Identified for Ampicillin allergy.

Modify the Status of Sulfonamides to Inactive

Medication	Allergy Reaction	Status	Date Identified
Ampicillin	Diarrhea, nausea, vomiting	Active	3/15/84
Sulfonamides	Hives, photosensitivity	Inactive	8/24/05

Retrieve Active Medication Allergies

Active Medication Allergies only

Medication	Allergy Reaction	Status	Date Identified
Codeine	Hives	Active	6/27/96
Ampicillin	Diarrhea, nausea, vomiting	Active	3/15/84
Ibuprophen	Hives, respiratory distress	Active	4/4/07

Retrieve Medication Allergy History

List(s) of Active and Inactive Medication Allergies

Medication	Allergy Reaction	Status	Date Identified
Codeine	Hives	Active	6/27/96
Ampicillin	Diarrhea, nausea, vomiting	Active	3/15/84
Sulfonamides	Hives, photosensitivity	Inactive	8/24/05
Ibuprophen	Hives, respiratory distress	Active	4/4/07

CONFORMANCE TEST TOOLS

None